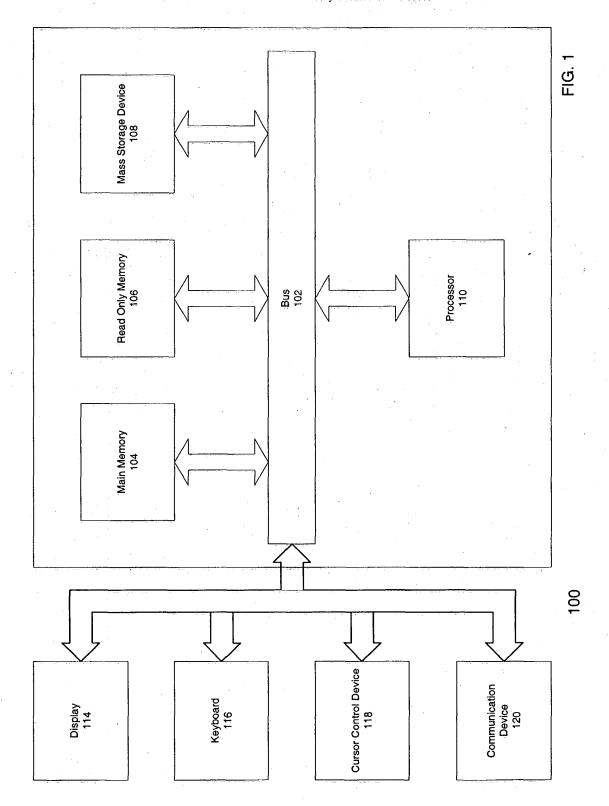BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP   (303) 740-1980
Title: "Virtual Machine Management Using Processor State Information"
Inventor: Robert C. Knauerhase, et al.
Filing Date: Concurrently Herewith
Express Mail No.: EV 306655415
Sheet: 1of 7   Attorney Docket No: 42P16779

FIG. 1

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Title: "Virtual Machine Management Using Processor State Information"
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FIG. 2

VM Software Application 216	VM Software Application 214	VM Software Application 212
VM 208	VM 206	VM 204
VM Operating System 222	VM Operating System 220	VM Operating System 218

Virtual Machine Manager (VMM) 202

Platform 224

Processor 110

Host Operating System 226

100

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Remote Machine 308

Remote Machine 310

Remote Machine 312

FIG. 3

Network 314

Modem 304

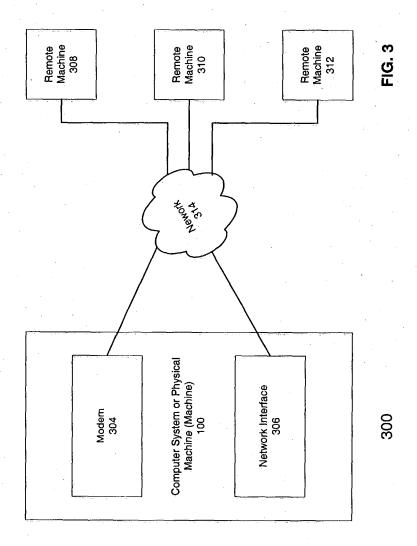Computer System or Physical Machine (Machine) 100

Network Interface 306

300

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Inventor: Robert C. Knauerhase, et al.
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Express Mail No.: EV 306655415
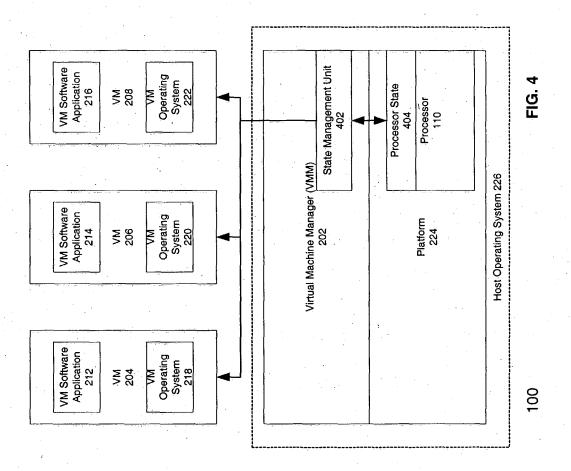Sheet: 4 of 7   Attorney Docket No: 42P16779

FIG. 4

```
        ┌─────────────────────────────────────────────┐
        │     Monitor the processor state of a processor │
        │                     502                       │
        └─────────────────────────────────────────────┘
                              │
                              ▼
        ┌─────────────────────────────────────────────┐
   ┌───▶│      Gather the processor state information   │◀───┐
   │    │                     504                       │    │
   │    └─────────────────────────────────────────────┘    │
   │                          │                             │
   │                          ▼                             │
   │    ┌─────────────────────────────────────────────┐    │
   │    │     Evaluate the processor state information   │◀─┐ │
   │    │                     506                       │  │ │
   │    └─────────────────────────────────────────────┘  │ │
   │                          │                           │ │
   │                          ▼                           │ │
   │               ◇ Determine whether the ◇             │ │
   │              ◇  processor state information ◇   No   │ │
   │             ◇  triggers a change in the time ◇──────┘ │
   │              ◇ quanta of a virtual machine ◇          │
   │               ◇       (VM)        ◇                   │
   │                  ◇    508    ◇                        │
   │                      │                               │
   │                      ▼ Yes                           │
   │  ┌──────────────┐        ◇ Determine whether the time ◇  │
   │  │ Increase the time │ Yes ◇ quanta be increased for the VM ◇ │
   └──│ quanta for the VM │◀───◇          510           ◇     │
      │      512      │        ◇                        ◇     │
      └──────────────┘             │                          │
                                   ▼ No                       │
        ┌─────────────────────────────────────────────┐      │
        │     Decrease the time quanta for the VM        │──────┘
        │                     514                       │
        └─────────────────────────────────────────────┘
```

FIG. 5

FIG. 6

100

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Express Mail No.: EV 306655415
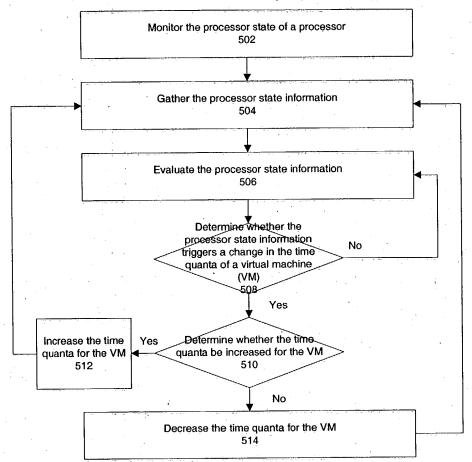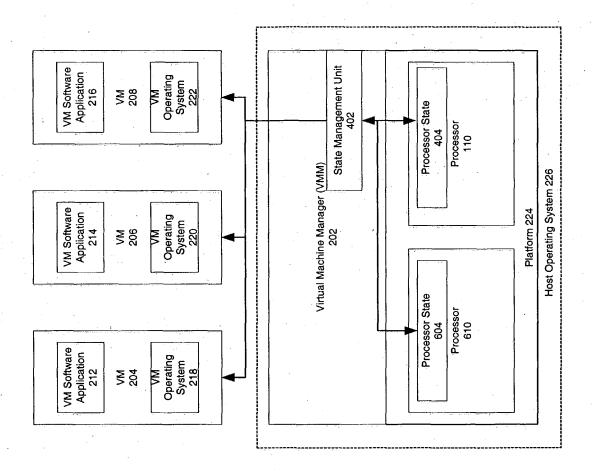Sheet: 7 of 7   Attorney Docket No: 42P16779

FIG. 7